

Performance Multihull Charters.

Operations Manual.

““SERRANO””.

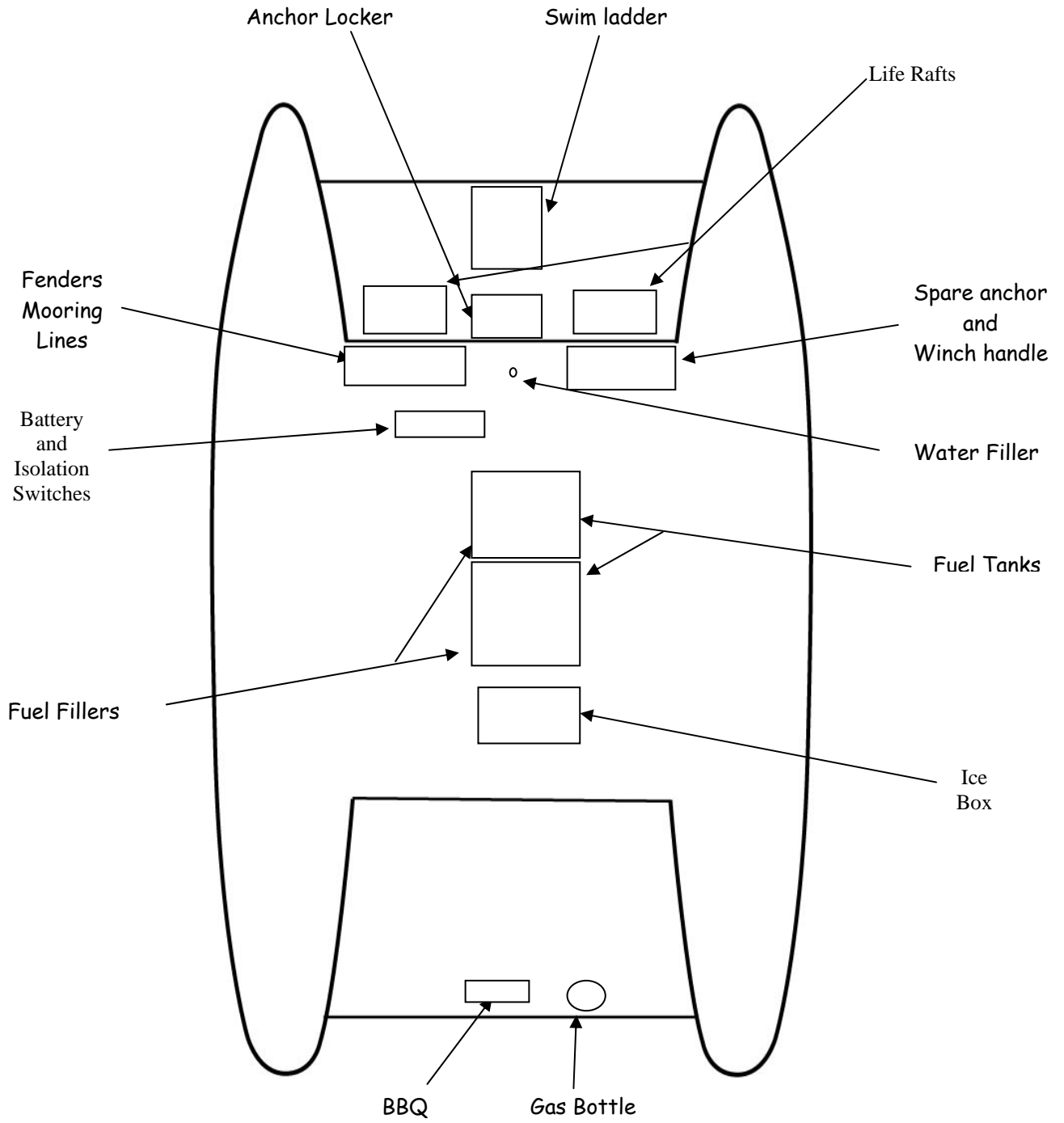
Seawind 1000 Catamaran.



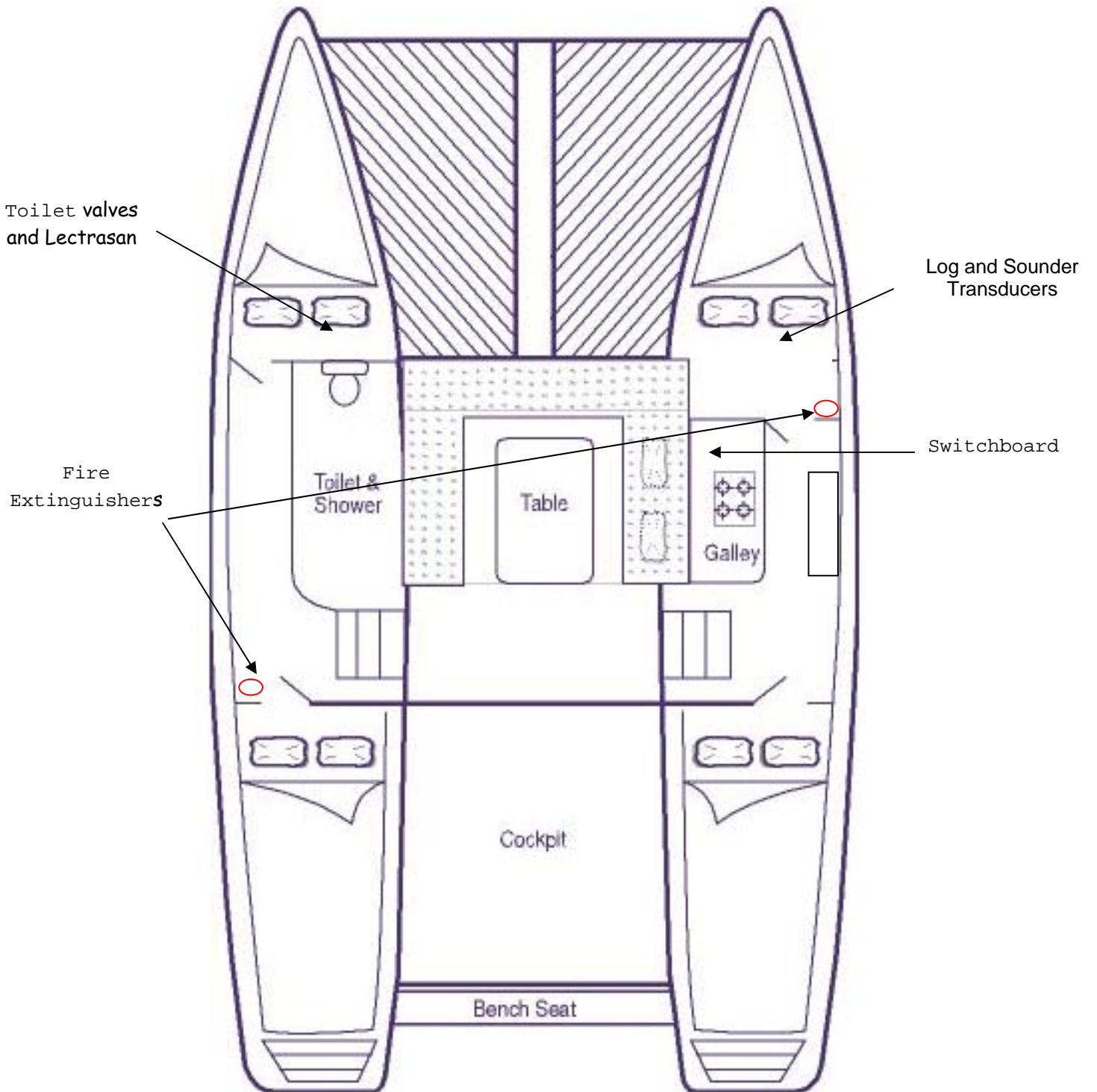
Specifications.

Length.	10 Metres
Width.	5.9 Metres
Draft.	.9 Metres
Engines.	Twin 9.9hp 4-stroke Electric Start.
Fuel Capacity.	90 Litres
Freshwater Capacity.	600 Litres
Private Cabins.	4
Passengers Permitted.	10 Overnight 12 By day 20 With approved licensed skipper
Double Berths.	4 and Drop down table.
Refrigeration.	Chest Electric Eutectic Fridge Deck Esky
Cooking Facilities.	2 Burner Gas Stove and Grill. Gas BBQ on rear deck.

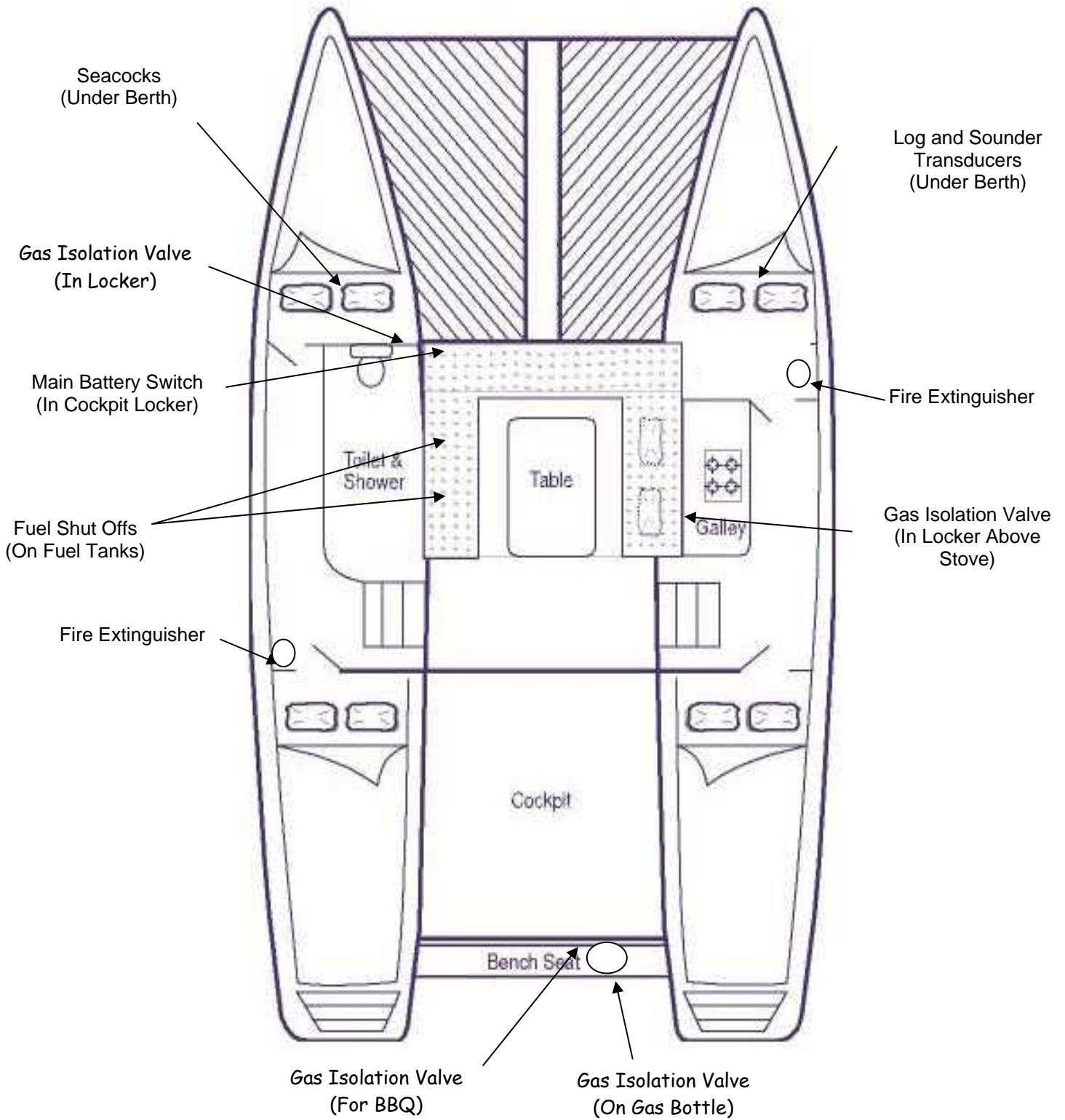
Above Deck Layout



Below Deck Layout



Safety Equipment Locations



Electrical System

““SERRANO”” has ample power with an easy to use 12-volt system. The batteries are situated in the forward lockers in the cockpit. The solar panels and the engines recharge these batteries.

Any power you use has to be replaced and you should monitor your house battery condition to ensure it is kept charged. Heavy power consumption will require you to replace the power used by running your engines.

Each morning the battery isolation switch must be switched over to the opposite battery. This will allow the used battery to recharge to full capacity while providing power from the second charged battery.

Note: If using the engines to charge the batteries run above idle at about quarter revs.



VHF Radio.

“SERRANO” is equipped with a GME VHF radio.

- To operate, turn circuit breaker on at panel.
- Turn radio on, select channel, and adjust squelch to stop static.
- Channel 16 is the Emergency and calling frequency, once contact is made you should select another channel for general communications.
- Three minutes (3) after the hour and half hour is radio quiet time for listening for distress calls.

AM/FM Radio and CD Player

“Serrano” is equipped with a GME AM/FM Radio, CD player.

- To operate ensure the Stereo switch located on the fuse panel adjacent to the radio is switched on.
- Press the power button to turn on.
- Use the search button to locate radio station.
- Or carefully insert one clean CD at a time into the front CD slot.
- Adjust to correct volume.



CD Player and VHF Radio

Navigation Instruments

“**Serrano**” is equipped with three instruments which give you boat speed, depth of water and wind speed and direction.

Do not adjust these instruments as damage can occur to sensitive electronics if used incorrectly.

There is no need to adjust any settings by using the buttons on the instruments.

A depth alarm is set for Two and a Half (2.5) Meters of water depth

Note: Never rely solely on the sounder when moving in shallow water or when anchoring. The depth reading on the sounder is depth of water.

A crewman should look for danger from the bow and the vessel should manoeuvre very slowly.

Remember that the instruments are computers and incorrect use of buttons can cause false displays or damage.



Engines.

“Serrano” is powered by two Yamaha 9.9HP Electric Start outboards and cruises at five knots.



Two 40-litre fuel tanks give a cruising range of 30 hours.

Before Starting Engines.

Ensure that the Engines have been lowered into the water, by uncleating the raise rope located on the rear beam directly behind each motor and lowering the motor carefully into the water.

(Failure to do this before trying to start the Engines will damage the water pump leading to damaged motors and expensive repair bills).

To Start Engines.

1. Select neutral with gear lever in central position.
2. Pump fuel bulb in engine bay until firm.
3. Turn the ignition key clockwise to start.
4. As soon as Engine starts release the key.
5. Once the Engines are running lift the motor cover/seat and check that there is a good flow of cooling water discharging from the motor cooling telltale.

To Stop Engines

1. Slow the Engines to idle.
2. Select neutral.
3. Turn the ignition key off.
4. Raise the Engines from the water by pulling the lockdown release rope and pulling the Engine up with the raise rope.

To Engage Gears

1. Push control levers firmly forward to engage forward gear.
2. Pull control levers firmly back to engage reverse gear.

“Always pause at neutral for a few seconds when changing gears”.

To disengage gears for running motors at fast idle for battery charging, press the black button at the base of the gear lever in and move lever forward.

Checking of oil in the engines is not necessary during your charter unless a problem occurs.

It is a requirement to regularly check that there is adequate cooling water coming from the engine during running by lifting the cover and inspecting the water flow from the motor telltale.

If an engine alarm sounds or a low oil light glows while engine is still running

1. Stop the engine
2. Call 0429 992275, 49752604 for advice and assistance.
3. “Serrano” can be safely manoeuvred in “open water” with only one motor.

Windlass.

WARNING

When using a windlass, it is important to keep your fingers and toes well away from the teeth of the windlass and the chain as it passes over the bow roller, as accidentally trapping them could cause serious injury.

Keep your fingers and toes away from the chain as it passes over the bow roller.

“SERRANO” is fitted with a manual anchor winch, 30 metres of chain, 30 metres of rope and a CQR type anchor.

A spare anchor is located in the bow locker. The spare anchor is for emergency use ONLY.

The winch raises the anchor when the winch handle is rotated in the clockwise direction

To Lower The Anchor

1. Select your location and check water depth. Stop the vessel with the bow into the wind.
2. Pull the tender alongside, to avoid wrapping the painter around the propeller.
3. Lower the anchor by using the winch handle in the windlass and operating it in the anticlockwise direction. This will loosen the clutch brake assembly and allow for a controlled paying out of the anchor chain.
4. When the required length of chain and rope is released allow the vessel to lay into the wind while keeping the engines in neutral, securely cleat the anchor rope to the anchor bollard near the windlass.
5. After the anchor chain and rope has been laid out gently run the Engines in reverse to set the anchor.
6. After about 10 minutes check to ensure your position is the same and the anchor is holding, continue to monitor you position periodically.
7. If the anchor doesn't hold let out a further 10 metres and try again.

To lift your anchor

1. Open the anchor locker hatch to allow for flaking of the rope and chain as it is retrieved.
2. Motor very slowly forward, and pull the rope in by winding the windlass in the clockwise direction.
3. Don't over run the chain and make sure the chain comes up vertically.
4. Keep the skipper informed so the vessel moves ahead only as fast as the chain is retrieved.
5. Keep some hand tension on the chain to ensure it engages properly on the winch.
6. As the anchor comes up to the front roller stop raising and ensure that the anchor is facing the correct direction to come on board, this is also a good time to wash any accumulated mud or weed off.

Refrigeration

“SERRANO” has a 12-volt electrical Eutectic fridge and a deck esky.

Fridge

To operate ensure the switch marked REFRIGERATION is turned on at the switchboard. This switch should be left on at all times unless different instructions are issued.

Esky



Stove and BBQ

“**SERRANO**” is equipped with a two-burner gas stove with grill located in the galley and a BBQ located on the rear deck.

Both of these are supplied with gas from the gas bottle located on the transom rail.

As a safety precaution the gas supply should always be turned off at the bottle when not in use.

LPG Bottle.

The bottle has enough gas to easily last your charter. Refilling it in mid charter is not necessary.

BBQ

To light the BBQ.

- Turn on the gas bottle valve
- Turn on the inline isolation valve
- Press the control knob in and turn anti-clockwise
- Insert the gas igniter and flick on
- The valve opens fully as soon as it starts to turn giving high heat.
- Turn it fully anti-clockwise for low heat.



Stove

To Light Stove Burners

- Press the burner control knob in and turn anticlockwise.
- Light burner with the flint gun and hold control knob in for 10 seconds after the burner is lit.
- If the burner goes out - repeat the procedure.

Hot Water Service

Showers

“**SERRANO**” is equipped with a gas hot water service for the shower located in the port bathroom.

To light the hot water system.

- Turn on the gas bottle valve located on the transom rail.
- Turn on the gas isolation valve located in the locker in the port bow cabin.
- Read and follow the operating instructions located on the front panel of the heater unit.

To Operate bathroom shower.

- Before using the internal shower ensure the FRESH WATER PUMP SWITCH located on the switchboard is turned on.
- Light the hot water service as described above.
- Turn the cold shower tap on first
- Adjust the Hot water tap until the required temperature is reached.
- The shower water drains into a small sump in the floor, which contains an electric pump.
- There is a silver pull switch located below the shower taps. To drain the shower water **pull out this switch** this during your shower.
- The length of time spent in the shower should be kept as short as possible to

avoid running out of fresh water.

To operate Deck Shower.

- The deck shower is located on the port transom in a convenient location for rinsing off after swimming.
- To operate ensure the WATER PUMP switch is on at the switchboard.
- Hold the hand piece while adjusting the control knob to the required flow.
- The length of time spent in the shower should be kept as short as possible to avoid running out of fresh water.
- When finished - turn everything off again.

Fresh Water

“SERRANO” is equipped with

- 600 litres of freshwater in a tank located under the front bridge deck seat.
- One freshwater pump located in the starboard forward cockpit locker.
- The deck filler cap is located just forward of the mast.
- To operate turn the WATER PUMP switch on at the main electrical panel.
- Open water tap as required the system will supply water at pressure, then when the taps is closed the pump will build up pressure again then turn off.
- Make sure the pump turns off when taps are off. If the pump continues to run check all taps for correct closure.

Toilet.

“SERRANO” has an electric toilet, which flushes directly into a lectrasan treatment system using seawater.

Only human waste and toilet paper can be put in the toilet. Sanitary pads, tampons and other waste must be disposed of in the rubbish as they would block and damage the system.

Ensure all crewmembers know how to use the toilet properly because a blocked toilet can spoil your holiday and ruin your budget!!

After using toilet

1. Press the flush button for at least 15 to 20 seconds to flush toilet with seawater.

If the toilet is blocked during charter as a result of misuse, there will be a charge to have the blockage cleaned out.

Bilge Pumps

“SERRANO” has 3 manual pumps. One in each aft cabin and one under the starboard saloon seat.

High-level bilge water alarms are located under each aft cabin berth. If these sound the water can be pumped out using the appropriate pump. Any other water can be removed by the cockpit pump using its long hose to reach the problem area.

Manoeuvring and Steering

“SERRANO” will turn on its own length with one engine in forward and one in reverse.

When moving at a slow speed you will have to use your engines to steer.

When engaging reverse PAUSE at the neutral throttle position before moving into reverse so as to allow the motor to come back to idle before moving into reverse and engaging power.

Be careful you don't overload the steering when trying to turn in a small area. Use the engines instead.

To prevent damage to the tender or the main engines when manoeuvring. Always ensure the tender is alongside and secured by a short rope. Or if moving astern trail it from the bow.

The best place to learn how your vessel manoeuvres is when you have plenty of space out in open water. Familiarise yourself out in open water before entering an anchorage area or bay. Engage reverse and test the vessel's response when it reaches 2 to 3 knots.

Before you approach a berth have your fenders down to the correct level for the height of the berth. The loops on the mooring ropes should be attached to the deck cleats with the ropes under the lifelines and ready to throw.

In strong winds do not approach Marinas, Jetties, Wharves or other Vessels. Use extreme care when moving into a mooring area or anchorage area. Approach the area slowly but ensure you are moving steadily to retain good steerage. Make sure you select a position to anchor in well in advance of your.

Sails

“SERRANO” has a roller furling headsail and a slab reef mainsail.
Always head into the wind when raising or lowering sails.

Headsail

When furling the headsail, head off the wind to stop the sail from flogging on the rigging.

1. Release furling line at cockpit.
2. Pull sheet rope to unfurl sail.
3. Lock off furling rope if you want to reduce sail.
4. To furl sail away - release tension on sheet rope and pull the smaller furling rope. Lock off cleat when sail is fully rolled in.

Never use a winch on furling lines as damage to the forestay may result.

Never release tension on mast headsail halyard, which is secured with plastic ties. This is only released when removing the sail for maintenance.

It is not necessary to reduce the headsail area until winds exceed 25 knots.

Close hatches when sailing to avoid damage if a rope catches on hatch.

Mainsail

“SERRANO” mainsail should be reduced to the first reef point when winds reach a constant 15 knots and the second reef point at 20 knots on the wind instrument.

Do not use the mainsail if the winds exceed 30 knots. In heavy weather conditions it is best to motor or motor/sail with a minimum amount of headsail.

To Raise the Mainsail

1. Unzip the mainsail cover completely.
2. Move vessel slowly into the wind by using the motors.
3. Release the mainsail sheet rope in the cockpit.
4. Raise the mainsail by pulling the mainsail halyard by hand. Before using the winch make sure the sail is not jammed in the track or the top of the lazy jacks.

To Reef the Mainsail

1. Before raising the sail, or if already raised lower the halyard until the reefing stainless steel eyelet located on the sail luff can be hooked onto the reefing hooks located on the boom gooseneck.
2. Once the sail is hooked on to the reefing hooks retention the halyard.
3. Pull the reefing line that controls the back of the sail to tension the back of the sail down to the boom, these are located on the side decks in rope clutches. It may be necessary to use the winchs.

To Lower the Mainsail

1. Steer vessel into the wind and release mainsheet.
2. Release the halyard to drop mainsail. Most of the mainsail should fall into the cover and the rest can be pushed in by hand. Using the motor will assist

you in steering into the wind

Emergency Procedures

“SERRANO” has a number of safety features, which include:

First Aid Kit.

Is located behind the stove in the galley on the starboard side of the vessel.

Lifejackets

Are stowed under the cockpit seat on the port side of the vessel.

Safety Equipment

Flares, V-Sheet, Handheld flares and other emergency equipment are stowed behind the stove in the galley on the starboard side of the vessel.

Fire Extinguishers

Two dry chemical type on board. One is located in each hull.
Fire buckets are located under the starboard cockpit seat

OPERATION MANUAL

Seawind 1000 - ““SERRANO””

Deck Inventory

Mooring Lines	4
Fenders	5
Deck Brush/Broom	Yes
Boat Hook	1
Anchor Winch Handle	21
Bilge Pump Handles	3
Winch Handles	2
Buckets	2
Leadline	Yes
Water hose and fittings	2
Anchor cleaning bucket, brush	yes
Life jackets	24
Fish cleaning boards	2
Man Overboard Light	Yes
Life Ring	2
Seat cushions	6
Rear seat cushions	2
<u>Below Deck Inventory</u>	
Fire Extinguishers	2
First Aid Kit	Yes
Flares	Yes
Vessel Manual/Radio Info	
Tool Box & Spares	Yes
	Yes
Charts	3
Binoculars	Yes
Torch and Spare Battery	Yes
Wet Weather Gear	2
<u>Dinghy Inventory</u>	
Oars	2
Dinghy Bailer	Yes
Painter	2

Galley Inventory

Dinner Plates	8
Bread and Butter Plates	8
Bowls	8
Coffee Mugs	8
Glasses	8
Wine Glasses	8
Knives	8
Forks	8
Spoons	8
Teaspoons	8
Bread Knives	2
Vegetable Knife	1
Large Fork	1
Stainless Steel Tongs	1
Spatula	1
Can Opener (winding)	1
Corkscrew	1
Salad Tongs	1
Grater	1
Vegetable Peeler	1
BBQ Lighter	2
Cutting Board	1
Mixing Bowls	1
Sealed Containers	1
Colander	1
Baking Dish	1
Saucepans S M L	3
Frypans	3
Kettle	1
Clothes Pegs and Container	1
Dustpan and Brush	Yes
Toilet Brush	1
Sink Plugs	1
Pillows	Yes
Linen As Required	Yes